Course Overview:

to the systems engineer's product development toolkit. Looking at a system as the sum of its parts working together, as opposed to a typical linear process, best describes the core principle of Systems Thinking. Understanding the relationship between "Events, Patterns, and Structures" provides the systems engineer with an approach that improves and expands the product development and problem solution arena. You will learn the significance of systems thinking through lecture and "hands-on" assignments designed to reinforce the core set of analysis tools provided in this course.

Course Objective:

The course will explore concepts of safety and systems, perspectives of the people in systems, system conditions, system behavior and outcomes

Course Outline:

- Definition and application of the systems thinking process
- Understanding the application of a systemic solution space
- Developing and applying customer requirements to your solution space
- Understanding the relationship between growth and balancing structures
- Understanding the relationship between competitive and cooperative structures
- Learn the process of identifying and using a system's high leverage point
- Understanding the relationship with classical control theory methodology
- Understanding how today's solutions become tomorrow's problems
- Learn how to recognize problems before they become problems
- Highly interactive course
- Learning is enhanced with relevant case studies

Who Should Attend:

The course may be of interest to reach anyone involved in complex sociotechnical systems, but particularly managers, safety investigators, and safety representatives.

Training Language:

Eng/Ar

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation